GenCore version 5.1.3

OM protein - protein search, using sw model

Run on: January 16, 2003, 16:34:37 ; Search time 61.8429 Seconds
(without alignments)
28.011 Million cell updates/sec

Title: US-09-856-070-19
Perfect score: 65
Sequence: 1 KEELMERLQDYEE 13

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 908470 seqs, 133250620 residues

Total number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_Geneseq_101002:*
1: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1980.DAT:*
2: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1981.DAT:*
3: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1982.DAT:*
4: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1983.DAT:*
5: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1984.DAT:*
6: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1985.DAT:*
7: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1986.DAT:*
8: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1987.DAT:*
9: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1988.DAT:*
10: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1989.DAT:*
11: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1990.DAT:*
12: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1991.DAT:*
13: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1992.DAT:*
14: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1993.DAT:*
15: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1994.DAT:*
16: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1995.DAT:*
17: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1996.DAT:*
18: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1997.DAT:*
19: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1998.DAT:*
20: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1999.DAT:*
21: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA2000.DAT:*
22: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA2001.DAT:*
23: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	65	100.0	13	22	AAB82037	Human hepreceptor
2	65	100.0	34	22	AAB82020	Human hepreceptor
3	65	100.0	436	22	AAG73954	Human colon cancer
4	65	100.0	586	20	AAY27443	Amino acid sequenc
5	65	100.0	622	22	AAU30004	Novel human secret
6	65	100.0	635	21	AAH53356	Human colon cancer
7	60	92.3	12	22	AAB82038	Human hepreceptor
8	57	87.7	52	22	AAU33060	Novel human secret
9	55	84.6	11	22	AAB82039	Human hepreceptor
10	41	63.1	27	20	AAY27444	Antennapedia inter
11	41	63.1	344	22	ABG29165	Novel human diagno
12	40	61.5	46	22	AAB42735	Peptide #10241 enc
13	40	61.5	46	22	AAM63626	Human brain expres
14	40	61.5	503	22	ABG16577	Novel human diagno
15	40	61.5	593	22	ABG19947	Novel human diagno
16	40	61.5	721	22	AAB93128	Human protein sequ
17	39	60.0	57	22	ABB39680	Peptide #7186 enco
18	39	60.0	57	22	AAM60696	Human brain expres
19	39	60.0	57	22	AAM73032	Human bone marrow
20	39	60.0	57	22	AAM33256	Peptide #7293 enco
21	39	60.0	57	23	ABC42876	Human peptide enco
22	39	60.0	405	11	AAP08119	CDX, a MILA involv
23	39	60.0	405	12	AAR13752	GDP-Fuc.beta-D-Gal
24	39	60.0	405	13	AAR28840	HeLa cell fucosylt
25	39	60.0	405	15	AAR45937	A glycosyltransfer
26	39	60.0	405	18	AAW13641	Human alpha(1,3)-f
27	39	60.0	405	18	AAW11821	Human myeloid deri
28	39	60.0	429	22	ABG19048	Novel human diagno
29	39	60.0	429	22	AAG74841	Human colon cancer
30	39	60.0	496	15	AAR45938	A glycosyltransfer
31	39	60.0	802	22	ABG19045	Novel human diagno
32	39	60.0	880	22	AAB96332	Putative P. abyssi
33	39	60.0	2645	22	ABG20077	Novel human diagno
34	38	58.5	631	21	AAY92816	JEST, a human SWAP
35	38	58.5	645	22	AAU17060	novel signal trans
36	38	58.5	786	22	AAM79287	Human protein SEQ
37	38	58.5	795	21	AAY70962	Rat Ras signalling
38	38	58.5	1387	21	AAY95441	Caenorhabditis ele
39	37	56.9	21	23	AAU89857	Insulin/insulin-li
40	37	56.9	209	22	AAM66650	Human bone marrow
41	37	56.9	209	23	ABG35304	Human peptide enco
42	37	56.9	219	22	ABB68980	Drosophila melanog
43	37	56.9	285	22	AAB96752	Putative P. abyssi
44	37	56.9	299	22	AAU14636	Novel bone marrow
45	37	56.9	406	19	AAM52940	Pseudomonas sp. P2

ALIGNMENTS

RESULT 1
AAB82037
ID AAB82037 standard; peptide; 13 AA.
XX
AC AAB82037;
XX
DT 14-JUN-2001 (first entry)
XX
DE Human hepreceptor domain A binding peptide Rupe2032.
XX
KW Human; hepreceptor; cytostatic; anti-HIV; antibiotic;
KW neutrophil; immune response inducer; ezrin; infectious diseases; cancer;
KW HIV related dementia.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Modified-site 11
FT /note "Optionally phosphorylated"
XX
PN GB2354241-A.
XX
PD 21-MAR-2001.
XX
PF 17-SEP-1999; 99GB-0021881.
XX
PR 17-SEP-1999; 99GB-0021881.
XX
PA (HOLM/) HOLMS R D.
XX
PI Holms RD;
XX
DR WPI; 2001-293287/31.

```
XX
PT   Novel regulatory or unfolding peptides of ezrin that binds to
PT   Hepreceptor, useful for inducing immune response for treating
PT   infectious diseases and cancer
XX
PS   Claim 22; Page 36; 42pp; English.
XX
CC   The hepreceptor is a novel active site in human ezrin. Ezrin regulates
CC   the structure of the cortical cytoskeleton to control cell surface
CC   topography. The present invention relates to peptides (see AAB82021 to
CC   AAB82041) that bind to hepreceptor with greater affinity than HEP1 (see
CC   AAB82046). The hepreceptor binding peptides are useful for inducing
CC   immune response, and for treating infectious diseases, cancer and
CC   HIV-related dementia. The present peptide binds to domain A of the
CC   hepreceptor (AAB82019).
XX
SQ   Sequence   13 AA;

  Query Match             100.0%;  Score 65;  DB 22;  Length 13;
  Best Local Similarity   100.0%;  Pred. No. 0.00055;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 KEELMLRLQDYEE 13
           |||||||||||||
Db       1 KEELMLRLQDYEE 13


RESULT 2
AAB82020
ID   AAB82020 standard; peptide; 34 AA.
XX
AC   AAB82020;
XX
DT   13-JUN-2001  (first entry)
XX
DE   Human hepreceptor domain B.
XX
KW   Human; hepreceptor domain B; cytostatic; anti-HIV; antibiotic;
KW   nootropic; immune response inducer; ezrin; infectious diseases; cancer;
KW   HIV-related dementia.
XX
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
FT   Modified-site   14
FT                   /note= "Optionally phosphorylated"
XX
PN   GB2354241-A.
XX
PD   21-MAR-2001.
XX
PF   17-SEP-1999;   99GB-0021881.
XX
PR   17-SEP-1999;   99GB-0021881.
XX
PA   (HOLM/) HOLMS R D.
XX
PI   Holms RD;
XX
DR   WPI; 2001-293287/31.
XX
PT   Novel regulatory or unfolding peptides of ezrin that binds to
PT   Hepreceptor, useful for inducing immune response for treating
PT   infectious diseases and cancer
XX
PS   Claim 5; Page 36; 42pp; English.
XX
CC   The present sequence is domain B of human hepreceptor of human ezrin. The
CC   hepreceptor is a novel active site in human ezrin. Ezrin regulates the
CC   structure of the cortical cytoskeleton to control cell surface
CC   topography. The present invention relates to peptides (see AAB82021 to
CC   AAB82041) that bind to hepreceptor with greater affinity than HEP1 (see
CC   AAB82046). The hepreceptor binding peptides are useful for inducing
CC   immune response, and for treating infectious diseases, cancer and
CC   HIV-related dementia. The present sequence assembles into two
CC   anti-parallel helices with hepreceptor domain A (see AAB82019).
XX
SQ   Sequence   34 AA;

  Query Match             100.0%;  Score 65;  DB 22;  Length 34;
  Best Local Similarity   100.0%;  Pred. No. 0.0015;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 KEELMLRLQDYEE 13
           |||||||||||||
Db       4 KEELMLRLQDYEE 16


RESULT 3
AAG73954
ID   AAG73954 standard; Protein; 436 AA.
XX
AC   AAG73954;
XX
DT   03-SEP-2001  (first entry)
XX
DE   Human colon cancer antigen protein SEQ ID NO:4718.
XX
KW   Human; colon cancer; colon cancer antigen; diagnosis; detection;
KW   colorectal carcinoma.
XX
OS   Homo sapiens.
XX
PN   WO200122920-A2.
XX
PD   05-APR-2001.
XX
PF   28-SEP-2000; 2000WO-US26524.
XX
PR   29-SEP-1999;   99US-0157137.
PR   03-NOV-1999;   99US-0163280.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
XX
PI   Ruben SM,  Barash SC,  Birse CE,  Rosen CA;
XX
DR   WPI; 2001-235357/24.
DR   N-PSDB; AAH33385.
XX
PT   Nucleic acids encoding 4277 human colon cancer-associated polypeptides,
PT   useful for preventing, diagnosing and/or treating colorectal cancers
XX
PS   Claim 11; Page 6520-6521; 9803pp; English.
XX
CC   AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon
CC   cancer-associated nucleic acid molecules (N) and proteins (P), where
CC   the proteins are collectively known as colon cancer antigens. The colon
CC   cancer antigens have cytostatic activity and can be used in gene
CC   therapy and vaccine production. N and P may be used in the prevention,
CC   diagnosis and treatment of diseases associated with inappropriate P
CC   expression. For example, N and P may be used to treat disorders
CC   associated with decreased expression by rectifying mutations or deletions
CC   in a patient's genome that affect the activity of P by expressing
CC   inactive proteins or to supplement the patients own production of P.
CC   Additionally, N may be used to produce the colon cancer-associated Ps,
CC   by inserting the nucleic acids into a host cell and culturing the cell
CC   to express the proteins. N and P can be used in the prevention, diagnosis
CC   and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204
CC   and AAH77789 represent sequences used in the exemplification of the
CC   present invention.
CC   N.B. Pages 666 to 682 and page 7053 of the sequence listing were
CC   missing at time of publication, meaning no sequences are present for
CC   SEQ ID NO:1027 to 1052, 7021 and 7022.
XX
SQ   Sequence   436 AA;
```

```
  Query Match             100.0%;  Score 65;  DB 22;  Length 436;
  Best Local Similarity   100.0%;  Pred. No. 0.02;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 KEELMLRLQDYEE 13
           |||||||||||||
Db     194 KEELMLRLQDYEE 206


RESULT 4
AAY27443
ID   AAY27443 standard; protein; 586 AA.
XX
AC   AAY27443;
XX
DT   26-NOV-1999  (first entry)
XX
DE   Amino acid sequence of human ezrin polypeptide.
XX
KW   Pharmaceutical; ezrin; mutant; tumor; metastasis; human.
XX
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
FT   Misc-difference 354
FT                   /note= "the Tyr at this position can be mutated
FT                    (preferably to a Phe) to construct an
FT                    ezrin mutant of the invention"
XX
PN   WO9947150-A2.
XX
PD   23-SEP-1999.
XX
PF   18-MAR-1999;   99WO-EP02054.
XX
PR   18-MAR-1998;   98US-0040725.
XX
PA   (CURI-) INST CURIE.
PA   (CNRS ) CNRS CENT NAT RECH SCI.
XX
PI   Arpin M,  Crepaldi T,  Gautreau A,  Louvard D;
XX
DR   WPI; 1999-561851/47.
XX
PT   New composition for prevention and treatment of tumors and metastasis
PT   -
XX
PS   Example 1; Fig 1; 31pp; English.
XX
CC   The invention provides a pharmaceutical composition containing ezrin
CC   protein, RNA or DNA mutated on tyrosine 353, or a functional fragment
CC   or derivative of the ezrin mutant. The new composition is useful for
CC   prevention and/or treatment of tumors, and especially metastasis. The
CC   present sequence represents the amino acid sequence of human ezrin
CC   (before the maturation by deletion of the first amino acid Met).
XX
SQ   Sequence   586 AA;

  Query Match             100.0%;  Score 65;  DB 20;  Length 586;
  Best Local Similarity   100.0%;  Pred. No. 0.027;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 KEELMLRLQDYEE 13
           |||||||||||||
Db     344 KEELMLRLQDYEE 356


RESULT 5
AAU30004
ID   AAU30004 standard; Protein; 622 AA.
XX
AC   AAU30004;
XX
DT   18-DEC-2001  (first entry)
XX
DE   Novel human secreted protein #495.
XX
KW   Human; vaccination, gene therapy, nutritional supplement;
KW   stem cell proliferation, haematopoiesis, nerve tissue regeneration;
KW   immune suppression, immune stimulation, anti-inflammatory, leukaemia.
XX
OS   Homo sapiens.
XX
PN   WO200179449-A2.
XX
PD   25-OCT-2001.
XX
PF   16-APR-2001; 2001WO-US08656.
XX
PP   18-APR-2000; 2000US-0550929.
PR   25-JAN-2001; 2001US-0770160.
XX
PA   (HYSE-) HYSEQ INC.
XX
PI   Tang YT,  Liu C,  Drmanac RT;
XX
DR   WPI; 2001-611725/70.
XX
PT   Nucleic acids encoding a range of human polypeptides, useful in genetic
PT   vaccination, testing and therapy -
XX
PS   Claim 20; Page 219; 765pp; English.
XX
CC   The invention relates to novel human secreted polypeptides. The
CC   polypeptides and antibodies to the polypeptides are useful for
CC   determining the presence of or predisposition to a disease associated
CC   with altered levels of polypeptide. The polypeptides are also useful for
CC   identifying agents (agonists and antagonists) that bind to them. Cells
CC   expressing the proteins are useful for identifying a therapeutic agent
CC   for use in treatment of a pathology related to aberrant expression or
CC   physiological interactions of the polypeptide. Vectors comprising
CC   the nucleic acids encoding the polypeptides and cells genetically
CC   engineered to express them are also useful for producing the proteins.
CC   The proteins are useful in genetic vaccination, testing and
CC   therapy, and can be used as nutritional supplements. They may be used to
CC   increase stem cell proliferation; to regulate haematopoiesis; and in
CC   bone, cartilage, tendon  and/or nerve tissue growth or regeneration;
CC   immune suppression and/or stimulation; as anti-inflammatory agents; and
CC   in treatment of leukaemias. AAU29510-AAU33304 represent the amino acid
CC   sequences of novel human secreted proteins of the invention.
XX
SQ   Sequence   622 AA;

  Query Match             100.0%;  Score 65;  DB 22;  Length 622;
  Best Local Similarity   100.0%;  Pred. No. 0.029;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 KEELMLRLQDYEE 13
           |||||||||||||
Db     380 KEELMLRLQDYEE 392


RESULT 6
AAB53356
ID   AAB53356 standard; Protein; 635 AA.
XX
AC   AAB53356;
XX
DT   09-MAR-2001  (first entry)
XX
DE   Human colon cancer antigen protein sequence SEQ ID NO:896.
XX
KW   Human, colon cancer, colon cancer antigen; diagnosis; detection;
KW   identification; cytostatic; cardioactive; neuroprotective; vulnerary;
KW   immunomodulatory; muscular; gynaecological; gastrointestinal;
KW   nephrotropic; antiinfective; antibacterial; gene therapy, wound;
```

```
KW   neural disorder; immune system disorder; muscular disorder;
KW   reproductive disorder; gastrointestinal disorder; renal disorder;
KW   infectious disease; cardiovascular disorder.
XX
OS   Homo sapiens.
XX
PN   WO200055351-A1.
XX
PD   21-SEP-2000.
XX
PF   08-MAR-2000; 2000WO-US05883.
XX
PR   12-MAR-1999;  99US-0124279.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
XX
PI   Rosen CA,  Ruben SM;
XX
DR   WPI; 2000-587534/55.
DR   N-PSDB; AAC98114.
XX
PT   Colon cancer associated gene sequences, referred to as colon cancer
PT   antigens, useful for the treatment, prevention, and diagnosis of colon
PT   disorders such as colon cancer -
XX
PS   Claim 11; Page 1449-1451; 2104pp; English.
XX
CC   AAC97991 to AAC98763 encode the human colon cancer associated proteins,
CC   called human colon cancer antigens, given in AAB53234 to AAB54006. The
CC   human colon cancer antigens can have cytostatic, cardioactive, muscular,
CC   neuroprotective, immunomodulatory, gynaecological, gastrointestinal,
CC   vulnerary, nephrotropic, antiinfective and antibacterial activities, and
CC   can be used in gene therapy. The colon cancer antigen polynucleotides,
CC   proteins and antibodies to the proteins are useful for the prevention,
CC   treatment and diagnosis of colon disorders, such as colon cancer. The
CC   polynucleotides may be used in diagnostics and research, such as for
CC   chromosome identification, and as hybridisation probes. The proteins
CC   may also be used to prevent diseases such as neural disorders, immune
CC   system disorders, muscular disorders, reproductive disorders,
CC   gastrointestinal disorders, wounds, renal disorders, infectious
CC   diseases, and cardiovascular disorders. AAC98764 to AAC98772 and
CC   AAB54007 represent sequences used in the exemplification of the present
CC   invention.
XX
SQ   Sequence   635 AA;

  Query Match             100.0%;  Score 65;  DB 21;  Length 635;
  Best Local Similarity   100.0%;  Pred. No. 0.03;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 KEELMLRLQDYEE 13
           |||||||||||||
Db     493 KEELMLRLQDYEE 505


RESULT 7
AAB82038
ID   AAB82038 standard; peptide; 12 AA.
XX
AC   AAB82038;
XX
DT   13-JUN-2001  (first entry)
XX
DE   Human hepreceptor domain A binding peptide Rupe2132.
XX
KW   Human; hepreceptor; cytostatic; anti-HIV; antibiotic;
KW   nootropic; immune response inducer; ezrin; infectious diseases; cancer;
KW   HIV-related dementia.
XX
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
FT   Modified-site   10
FT                   /note= "Optionally phosphorylated"
XX
PN   GB2354241-A.
XX
PD   21-MAR-2001.
XX
PF   17-SEP-1999;   99GB-0021881.
XX
PR   17-SEP-1999;   99GB-0021881.
XX
PA   (HOLM/) HOLMS R D.
XX
PI   Holms RD;
XX
DR   WPI; 2001-293287/31.
XX
PT   Novel regulatory or unfolding peptides of ezrin that binds to
PT   Hepreceptor, useful for inducing immune response for treating
PT   infectious diseases and cancer -
XX
PS   Claim 24; Page 36; 42pp; English.
XX
CC   The hepreceptor is a novel active site in human ezrin. Ezrin regulates
CC   the structure of the cortical cytoskeleton to control cell surface
CC   topography. The present invention relates to peptides (see AAB82021 to
CC   AAB82041) that bind to hepreceptor with greater affinity than HEPI (see
CC   AAB82046). The hepreceptor binding peptides are useful for inducing
CC   immune response, and for treating infectious diseases, cancer and
CC   HIV-related dementia. The present peptide binds to domain A of the
CC   hepreceptor (AAH82019).
XX
SQ   Sequence   12 AA;

  Query Match             92.3%;  Score 60;  DB 22;  Length 12;
  Best Local Similarity   100.0%;  Pred. No. 0.0032;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       2 EELMLRLQDYEE 13
           ||||||||||||
Db       1 EELMLRLQDYEE 12


RESULT 8
AAU33060
ID   AAU33060 standard; Protein; 52 AA.
XX
AC   AAU33060;
XX
DT   18-DEC-2001  (first entry)
XX
DE   Novel human secreted protein #3551.
XX
KW   Human; vaccination; gene therapy; nutritional supplement;
KW   stem cell proliferation; haematopoiesis; nerve tissue regeneration;
KW   immune suppression; immune stimulation; anti-inflammatory; leukaemia.
XX
OS   Homo sapiens.
XX
PN   WO200179449-A2.
XX
PD   25-OCT-2001.
XX
PF   16-APR-2001; 2001WO-US08656.
XX
PR   18-APR-2000; 2000US-0552929.
PR   26-JAN-2001; 2001US-0770160.
XX
PA   (HYSE-) HYSEQ INC.
XX
PI   Tang YT,  Liu C,  Drmanac RT;
XX
DR   WPI; 2001-611725/70.
XX
```

PT Nucleic acids encoding a range of human polypeptides, useful in genetic
PT vaccination, testing and therapy -
XX
PS Claim 20; Page 702; 765pp; English
XX
CC The invention relates to novel human secreted polypeptides. The
CC polypeptides and antibodies to the polypeptides are useful for
CC determining the presence of or predisposition to a disease associated
CC with altered levels of polypeptide. The polypeptides are also useful for
CC identifying agents (agonists and antagonists) that bind to them. Cells
CC expressing the proteins are useful for identifying a therapeutic agent
CC for use in treatment of a pathology related to aberrant expression or
CC physiological interactions of the polypeptide. Vectors comprising
CC the nucleic acids encoding the polypeptides and cells genetically
CC engineered to express them are also useful for producing the proteins.
CC The proteins are useful in genetic vaccination, testing and
CC therapy, and can be used as nutritional supplements. They may be used to
CC increase stem cell proliferation; to regulate haematopoiesis; and in
CC bone, cartilage, tendon and/or nerve tissue growth or regeneration;
CC immune suppression and/or stimulation; as anti-inflammatory agents; and
CC in treatment of leukaemias. AAU29510-AAU33304 represent the amino acid
CC sequences of novel human secreted proteins of the invention.
XX
SQ Sequence 52 AA;

Query Match 87.7%; Score 57; DB 22; Length 52;
Best Local Similarity 92.3%; Pred. No. 0.043;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KEELMLRLQDYEE 13
||||||| ||||||
Db 12 KEELMLWLQDYEE 24

RESULT 9
AAB82039
ID AAB82039 standard; peptide; 11 AA.
XX
AC AAB82039;
XX
DT 13-JUN-2001 (first entry)
XX
DE Human hepreceptor domain A binding peptide Rupe2232.
XX
KW Human; hepreceptor; cytostatic; anti-HIV; antibiotic;
KW nootropic; immune response inducer; ezrin; infectious diseases; cancer;
KW HIV-related dementia.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Modified-site 9
FT /note= "Optionally phosphorylated"
XX
PN GB2354241-A.
XX
PD 21-MAR-2001.
XX
PF 17-SEP-1999; 99GB-0021881.
XX
PR 17-SEP-1999; 99GB-0021881.
XX
PA (HOLM/) HOLMS R D.
XX
PI Holms RD;
XX
DR WPI; 2001-293287/31.
XX
PT Novel regulatory or unfolding peptides of ezrin that binds to
PT Hepreceptor, useful for inducing immune response for treating
PT infectious diseases and cancer -
XX
PS Claim 26; Page 37; 42pp; English.
XX
CC The hepreceptor is a novel active site in human ezrin. Ezrin regulates
CC the structure of the cortical cytoskeleton to control cell surface
CC topography. The present invention relates to peptides (see AAB82021 to
CC AAB82041) that bind to hepreceptor with greater affinity than HEP1 (see
CC AAB82046). The hepreceptor binding peptides are useful for inducing
CC immune response, and for treating infectious diseases, cancer and
CC HIV-related dementia. The present peptide binds to domain A of the
CC hepreceptor (AAB82019).
XX
SQ Sequence 11 AA;

Query Match 84.6%; Score 55; DB 22; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.018;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 ELMLRLQDYEE 13
||||||||||||
Db 1 ELMLRLQDYEE 11

RESULT 10
AAY27444
ID AAY27444 standard, peptide, 27 AA.
XX
AC AAY27444;
XX
DT 26-NOV-1999 (first entry)
XX
DE Antennapedia internalization sequence in tandem with ezrin fragment.
XX
KW Pharmaceutical, ezrin, mutant, tumor, antennapedia internalization;
KW metastasis; human.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT Modified-site 1
FT /note= "biotinylated"
FT Modified-site 22
FT /note "optionally phosphorylated"
XX
PN WO9947150-A2.
XX
PD 23-SEP-1999.
XX
PF 18-MAR-1999; 99WO-EP02054.
XX
PR 18-MAR-1998; 98US-0040725.
XX
PA (CURI-) INST CURIE.
PA (CNRS) CNRS CENT NAT RECH SCI.
XX
PI Arpin M, Crepaldi T, Gautreau A, Louvard D;
XX
DR WPI; 1999-561851/47.
XX
PT New composition for prevention and treatment of tumors and metastasis
PT -
XX
PS Example 5; Page 14; 31pp; English.
XX
CC The invention provides a pharmaceutical composition containing ezrin
CC protein, RNA or DNA mutated on tyrosine 353, or a functional fragment
CC or derivative of the ezrin mutant. The new composition is useful for
CC prevention and/or treatment of tumors, and especially metastasis. The
CC present sequence represents an antennapedia internalization sequence in
CC tandem with an ezrin fragment (residues 348-358). This is used in
CC experiments of p85 interaction with phosphorylated ezrin peptides.
XX
SQ Sequence 27 AA;

Query Match 63.1%; Score 41; DB 20; Length 27;

```
  Best Local Similarity   100.0%;  Pred. No. 7.7;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       6 LRLQDYEE 13
          ||||||||
Db      17 LRLQDYEE 24


RESULT 11
ABG29165
ID   ABG29165 standard; Protein; 344 AA.
XX
AC   ABG29165;
XX
DT   13-FEB-2002  (first entry)
XX
DE   Novel human diagnostic protein #29156.
XX
KW   Human; chromosome mapping; gene mapping; gene therapy; forensic;
KW   food supplement; medical imaging; diagnostic; genetic disorder.
XX
OS   Homo sapiens.
XX
PN   WO200175067-A2.
XX
PD   11-OCT-2001.
XX
PF   30-MAR-2001; 2001WO-US08641.
XX
PR   31-MAR-2000; 2000US-0540217.
PR   23-AUG-2000; 2000US-0644167.
XX
PA   (HYSE-) HYSEQ INC.
XX
PI   Drmanac RT,  Liu C,  Jang YI;
XX
DR   WPI; 2001-639362/73.
DR   N-PSDB; AAS93352.
XX
PT   New isolated polynucleotide and encoded polypeptides, useful in
PT   diagnostics, forensics, gene mapping, identification of mutations
PT   responsible for genetic disorders or other traits and to assess
PT   biodiversity -
XX
PS   Claim 20; SEQ ID No 59524; 103pp; English.
XX
CC   The invention relates to isolated polynucleotide (I) and
CC   polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC   polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC   and gene mapping, and in recombinant production of (II). The
CC   polynucleotides are also used in diagnostics as expressed sequence tags
CC   for identifying expressed genes. (I) is useful in gene therapy techniques
CC   to restore normal activity of (II) or to treat disease states involving
CC   (II). (II) is useful for generating antibodies against it, detecting or
CC   quantitating a polypeptide in tissue, as molecular weight markers and as
CC   a food supplement. (II) and its binding partners are useful in medical
CC   imaging of sites expressing (II). (I) and (II) are useful for treating
CC   disorders involving aberrant protein expression or biological activity.
CC   The polypeptide and polynucleotide sequences have applications in
CC   diagnostics, forensics, gene mapping, identification of mutations
CC   responsible for genetic disorders or other traits to assess biodiversity
CC   and to produce other types of data and products dependent on DNA and
CC   amino acid sequences. ABG00010-ABG10377 represent novel human
CC   diagnostic amino acid sequences of the invention.
CC   Note: The sequence data for this patent did not appear in the printed
CC   specification, but was obtained in electronic format directly from WIPO
CC   at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence   344 AA;

  Query Match           63.1%;  Score 41;  DB 22;  Length 344;
  Best Local Similarity   72.7%;  Pred. No. 1e+02;
  Matches    8;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy       2 EELMLRLQDYE 12
          :|||||.:|||
Db     278 KELMLRQKDYE 288


RESULT 12
ABB42735
ID   ABB42735 standard; Peptide; 46 AA.
XX
AC   ABB42735;
XX
DT   04-FEB-2002  (first entry)
XX
DE   Peptide #10241 encoded by human foetal liver single exon probe.
XX
KW   Human, foetal liver, gene expression, single exon nucleic acid probe.
XX
OS   Homo sapiens.
XX
PN   WO200157277 A2.
XX
PD   09-AUG-2001.
XX
PF   30-JAN-2001; 2001WO-US00669.
XX
PR   04-FEB-2000; 2000US-0180312.
PR   26-MAY-2000; 2000US-0207456.
PR   30-JUN-2000; 2000US-0608408.
PR   03-AUG-2000; 2000US-0632366.
PR   21-SEP-2000; 2000US-0234687.
PR   27-SEP-2000; 2000US-0236359.
PR   04-OCT-2000; 2000GB-0024263.
XX
PA   (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI   Penn SG,  Hanzel DK,  Chen W,  Rank DR;
XX
DR   WPI; 2001-483447/52.
XX
PT   Human genome-derived single exon nucleic acid probes useful for
PT   analyzing gene expression in human fetal liver -
XX
PS   Claim 27; SEQ ID NO 35370; 639pp + sequence listing; English.
XX
CC   The invention relates to a single exon nucleic acid probe for
CC   measuring human gene expression in a sample derived from human foetal
CC   liver. The single exon nucleic acid probes may be used for predicting,
CC   measuring and displaying gene expression in samples derived from human
CC   fetal liver. The present sequence is a peptide encoded by a single exon
CC   nucleic acid probe of the invention.
CC   Note: The sequence data for this patent did not form part of the
CC   printed specification, but was obtained in electronic format directly
CC   from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence   46 AA;

  Query Match           61.5%;  Score 40;  DB 22;  Length 46;
  Best Local Similarity   53.8%;  Pred. No. 19;
  Matches    7;  Conservative    4;  Mismatches    2;  Indels    0;  Gaps    0;

Qy       1 KEELMLRLQDYEE 13
           |: |:| |::|||
Db      31 KQNLLLELRNYEE 43


RESULT 13
AAM63626
ID   AAM63626 standard; Protein; 46 AA.
XX
AC   AAM63626;
XX
DT   05-NOV-2001  (first entry)
```

```
XX
DE   Human brain expressed single exon probe encoded protein SEQ ID NO: 35731
XX
KW   Human; brain expressed exon; gene expression analysis; probe;
KW   microarray; Alzheimer's disease, multiple sclerosis, schizophrenia,
KW   epilepsy; cancer.
XX
OS   Homo sapiens.
XX
PN   WO200157275-A2.
XX
PD   09-AUG-2001.
XX
PF   30-JAN-2001; 2001WO-US03667.
XX
PR   04-FEB-2000; 2000US-0180312.
PR   26-MAY-2000; 2000US-0207456.
PR   30-JUN-2000; 2000US-0608408.
PR   03-AUG-2000; 2000US-0632366.
PR   21-SEP-2000; 2000US-0234687.
PR   27-SEP-2000; 2000US-0236359.
PR   04-OCT-2000; 2000GB-0024263.
XX
PA   (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI   Penn SG,  Hanzel DK,  Chen W,  Rank DR;
XX
DR   WPI; 2001-483446/52.
XX
PT   Single exon nucleic acid probes for analysing gene expression in human
PT   brains -
XX
PS   Example 4; SEQ ID NO 35731; 650pp + Sequence Listing; English
XX
CC   The present invention provides a number of single exon nucleic acid
CC   probes which are derived from genomic sequences expressed in the human
CC   brain. They can be used to measure gene expression in brain cell samples,
CC   which may enable the diagnosis and improved treatment of nervous system
CC   diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia,
CC   epilepsy and cancers. The present sequence is a protein encoded by one of
CC   the probes of the invention.
XX
SQ   Sequence   46 AA;

  Query Match             61.5%;  Score 40;  DB 22;  Length 46;
  Best Local Similarity   54.8%;  Pred. No. 19;
  Matches    7;  Conservative    4;  Mismatches    2;  Indels    0;  Gaps    0;

Qy       1 KEELMLRLQDYEE 13
           |: |:| |::||
Db      31 KQNLLLELRNYEE 43


RESULT 14
ABG16577
ID   ABG16577 standard; Protein; 503 AA.
XX
AC   ABG16577;
XX
DT   18-FEB-2002  (first entry)
XX
DE   Novel human diagnostic protein #16568.
XX
KW   Human; chromosome mapping; gene mapping; gene therapy; forensic;
KW   food supplement; medical imaging; diagnostic; genetic disorder.
XX
OS   Homo sapiens.
XX
PN   WO200175067-A2.
XX
PD   11-OCT-2001.
XX
PF   30-MAR-2001; 2001WO-US08631
XX
PR   31-MAR-2000; 2000US-0540217.
XX
PR   23-AUG-2000; 2000US-0649167.
XX
PA   (HYSE ) HYSEQ INC.
XX
PI   Drmanac RT,  Liu C,  Tang YT;
XX
DR   WPI; 2001-639362/73.
DR   N-PSDB; AAS80764.
XX
PT   New isolated polynucleotide and encoded polypeptides, useful in
PT   diagnostics, forensics, gene mapping, identification of mutations
PT   responsible for genetic disorders or other traits and to assess
PT   biodiversity -
XX
PS   Claim 20; SEQ ID NO 46936; 103pp; English.
XX
CC   The invention relates to isolated polynucleotide (I) and
CC   polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC   polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC   and gene mapping, and in recombinant production of (II). The
CC   polynucleotides are also used in diagnostics as expressed sequence tags
CC   for identifying expressed genes. (I) is useful in gene therapy techniques
CC   to restore normal activity of (II) or to treat disease states involving
CC   (II). (II) is useful for generating antibodies against it, detecting or
CC   quantitating a polypeptide in tissue, as molecular weight markers and as
CC   a food supplement. (II) and its binding partners are useful in medical
CC   imaging of sites expressing (II). (I) and (II) are useful for treating
CC   disorders involving aberrant protein expression or biological activity.
CC   The polypeptide and polynucleotide sequences have applications in
CC   diagnostics, forensics, gene mapping, identification of mutations
CC   responsible for genetic disorders or other traits to assess biodiversity
CC   and to produce other types of data and products dependent on DNA and
CC   amino acid sequences. ABG00010-ABG30377 represent novel human
CC   diagnostic amino acid sequences of the invention.
CC   Note: The sequence data for this patent did not appear in the printed
CC   specification, but was obtained in electronic format directly from WIPO
CC   at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence   503 AA;

  Query Match             61.5%;  Score 40;  DB 22;  Length 503;
  Best Local Similarity   69.2%;  Pred. No. 2.2e+02;
  Matches    9;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy       1 KEELMLRLQDYEE 13
           |||||.||:  ||
Db     264 KEELMERLKQIEE 276


RESULT 15
ABG19947
ID   ABG19947 standard; Protein; 593 AA.
XX
AC   ABG19947;
XX
DT   18 FEB 2002  (first entry)
XX
DE   Novel human diagnostic protein #19938.
XX
KW   Human, chromosome mapping, gene mapping, gene therapy; forensic;
KW   food supplement; medical imaging; diagnostic; genetic disorder.
XX
OS   Homo sapiens.
XX
PN   WO200175067-A2.
XX
PD   11 OCT 2001.
XX
PF   30-MAR-2001; 2001WO-US08631.
XX
PR   31-MAR-2000; 2000US-0540217.
```

```
PR   24 AUG-2000; 2000US-0649167.
XX
PA   (HYSE-) HYSEQ INC.
XX
PI   Drmanac RT, Liu C, Tang YT;
XX
DR   WPI; 2001-639362/73.
DR   N-PSDB; AAS84134.
XX
PT   New isolated polynucleotide and encoded polypeptides, useful in
PT   diagnostics, forensics, gene mapping, identification of mutations
PT   responsible for genetic disorders or other traits and to assess
PT   biodiversity
XX
PS   Claim 20; SEQ ID No 50306; 103pp; English.
XX
CC   The invention relates to isolated polynucleotide (I) and
CC   polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC   polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC   and gene mapping, and in recombinant production of (II). The
CC   polynucleotides are also used in diagnostics as expressed sequence tags
CC   for identifying expressed genes. (I) is useful in gene therapy techniques
CC   to restore normal activity of (II) or to treat disease states involving
CC   (II). (II) is useful for generating antibodies against it, detecting or
CC   quantitating a polypeptide in tissue, as molecular weight markers and as
CC   a food supplement. (II) and its binding partners are useful in medical
CC   imaging of sites expressing (II). (I) and (II) are useful for treating
CC   disorders involving aberrant protein expression or biological activity.
CC   The polypeptide and polynucleotide sequences have applications in
CC   diagnostics, forensics, gene mapping, identification of mutations
CC   responsible for genetic disorders or other traits to assess biodiversity
CC   and to produce other types of data and products dependent on DNA and
CC   amino acid sequences. ABG00010-ABG30377 represent novel human
CC   diagnostic amino acid sequences of the invention.
CC   Note: The sequence data for this patent did not appear in the printed
CC   specification, but was obtained in electronic format directly from WIPO
CC   at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence   593 AA;

  Query Match             61.5%;  Score 40;  DB 22;  Length 593;
  Best Local Similarity   69.2%;  Pred. No. 2.6e+02;
  Matches    9;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy       1 KEELMERLQDYEE 13
           ||||| ||:  ||
Db     359 KEELMERLKQIEE 371


Search completed: January 16, 2003, 16:49:14
Job time : 62.8429 secs
```